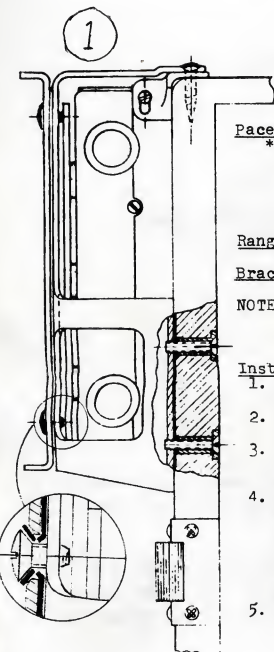


# FITTING GRAFLITE TO GRAFLEX CAMERAS

(All dimensions are inches. For millimeters, change inches to decimal equivalent and multiply by 25.4.)



## Pacemaker "34" & "45" \*

\* Early Pacemaker "45" did not have lower body and concealed shutter release plate drilled. This is a GRAFLEX Service Dept. installation.

Also see ②.

Rangefinder: Kalart E3

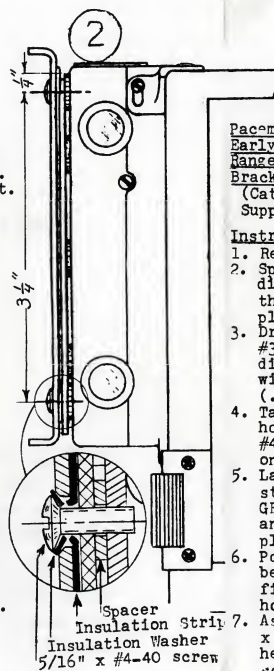
Bracket: Hugo Meyer P

Bracket: Rangefinder Encircling (Catalog No. 2753)

NOTE: This may be used below, Write for modification instructions.

### Instructions:

1. Locate points on leather in line with plugs.
2. Pierce leather with awl and force plugs out.
3. Ream holes with #9 drill (.196" diam) and assemble bushings.
4. At top, use #2 x 5/8" oval head wood screws in bracket and rangefinder plate. At rear bracket hole, drill 3/8" deep with #50 drill (.070" diam) and assemble #2 x 1/4" oval head wood screw.
5. Assemble bottom machine screws.

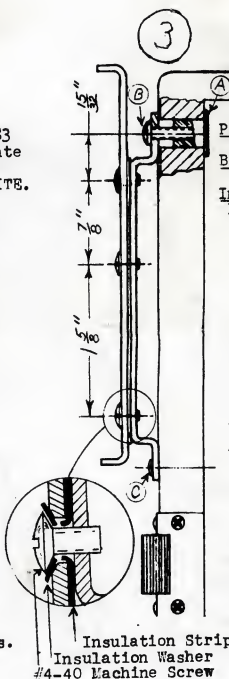


## Pacemaker "23" & Early "45"

Rangefinder: Kalart E3  
Bracket: Mounting plate (Cat. No. 2754)  
Supplied with GRAFLITE.

### Instructions:

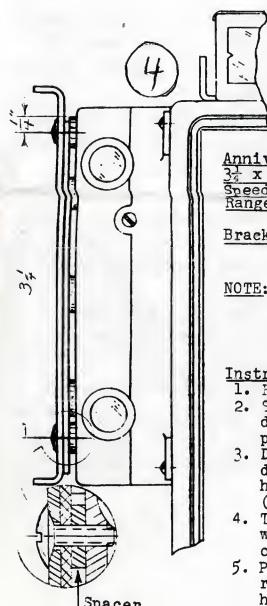
1. Remove housing.
2. Spot holes as dimensioned down the center of the plate.
3. Drill plate with #39 drill (.099" diam) and housing with #44 drill (.086" diam).
4. Tap plate and housing with #4-40 thread with one operation.
5. Lay insulation strip between GRAFLITE bracket and rangefinding plate.
6. Position spacers between rangefinder plate and housing.
7. Assemble 5/16" x #4-40 oval head machine screw with washers.



Pacemaker "23" "34" & "45"  
No Rangefinder  
Bracket: Mounting bracket (Cat. No. 2755)

### Instructions:

1. Drill bottom plate to mount GRAFLITE plate as dimensioned with #44 drill (.086" diam) tap #4-40. If plate is pre-drilled with #39 drill (.099" diam) write for free self-tapping screws.
2. Assemble bushing (A) in pre-drilled rangefinder arm hole. Cut leather around hole and file to fit bushing if necessary.
3. Attach bottom bracket with screw (B).
4. At (C), prob through the leather with awl to locate two taped holes in plate beneath leather. Assemble two 3/16" x #2-56 machine screws supplied with the lower bracket.
5. Position insulation strip between plates and cut off top excess. With insulating washer beneath head, assemble three #4-40 oval head machine screws or self-tapping screws.



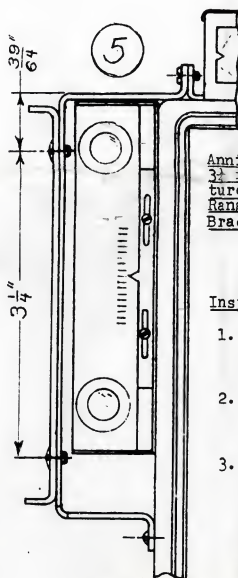
Anniversary Speed GRAPHIC 3 1/2 x 4 1/2 and 4 x 5 Miniature Speed GRAPHIC 2 1/2 x 3 1/2  
Rangefinder: Kalart E1 and E2

Bracket: Mounting plate, Cat. No. 2754.  
Supplied with GRAFLITE.

NOTE: Rangefinder encircling Bracket, Cat. No. 2753 (1) may be modified to fit these cameras. Write for instructions.

### Instructions:

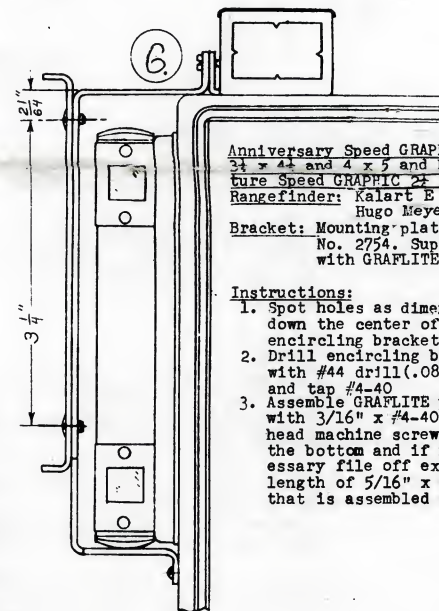
1. Remove rangefinder housing.
2. Spot holes as dimensioned down the center of the plate.
3. Drill plate with #39 drill (.099" diam) and housing with #44 drill (.086" diam).
4. Tap plate and housing with #4-40 tap with one operation.
5. Position spacer between rangefinder plate and housing.
6. Assemble mounting plate with 5/16" x #4-40 oval head machine screws.



Anniversary Speed GRAPHIC 3 1/2 x 4 1/2 and 4 x 5 Miniature Speed GRAPHIC 2 1/2 x 3 1/2  
Rangefinder: Kalart F  
Bracket: Mounting plate, Cat. No. 2754.  
Supplied with GRAFLITE.

### Instructions:

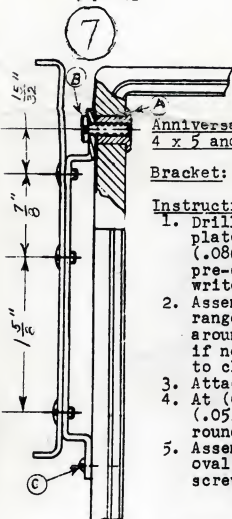
1. Spot holes as dimensioned down the center of the encircling bracket.
2. Drill encircling bracket with #44 drill (.086" diam) and tap #4-40.
3. Assemble GRAFLITE mounting plate with 3/16" x #4-40 oval head machine screw at the top, and, if necessary, file off excess of 5/16" x #4-40 that is assembled at the bottom.



Anniversary Speed GRAPHIC 3 1/2 x 4 1/2 and 4 x 5 Miniature Speed GRAPHIC 2 1/2 x 3 1/2  
Rangefinder: Kalart E & Hugo Meyer.  
Bracket: Mounting plate, Cat. No. 2754. Supplied with GRAFLITE.

### Instructions:

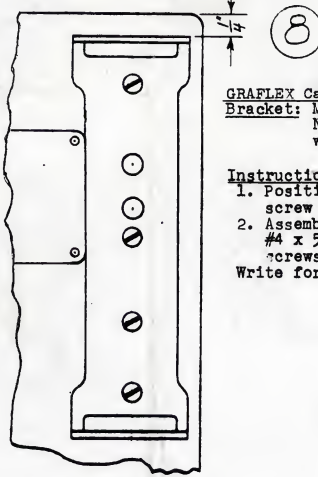
1. Spot holes as dimensioned down the center of the encircling bracket.
2. Drill encircling bracket with #44 drill (.086" diam) and tap #4-40.
3. Assemble GRAFLITE plate with 3/16" x #4-40 oval head machine screw at the bottom and if necessary file off excess length of 5/16" x #4-40 that is assembled at top.



Anniversary Speed GRAPHIC 3 1/2 x 4 1/2 and 4 x 5 and Miniature Speed GRAPHIC 2 1/2 x 3 1/2  
No Rangefinder  
Bracket: Mounting bracket, Cat. No. 2755.

### Instructions:

1. Drill bottom plate to mount GRAFLITE plate as dimensioned with #44 drill (.086" diam) tap #4-40. If plate is pre-drilled with #39 drill (.099" diam) write for free self-tapping screws.
2. Assemble bushing (A) in pre-drilled rangefinder arm hole. Cut leather around hole and file to fit bushing if necessary. File bushing shoulder to clear inside brace of a 4 x 5 camera.
3. Attach bottom bracket with screw (B).
4. At (C), pre-drill with #55 drill (.052" diam) and assemble two #2 x 5/16" round head wood screws.
5. Assemble GRAFLITE bracket with #4-40 oval head machine screws or self-tapping screws.



GRAFLEX Cameras.  
Bracket: Mounting plate, Cat. No. 2754. Supplied with GRAFLITE.

### Instructions:

1. Position as shown and start screw holes with an awl.
2. Assemble plate with four #4 x 5/16" oval head wood screws.

Write for necessary free wood screws.

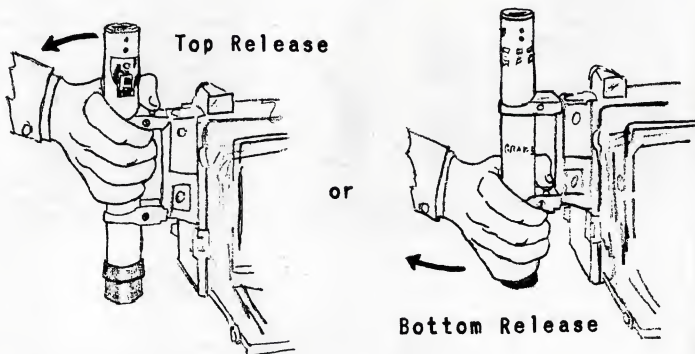
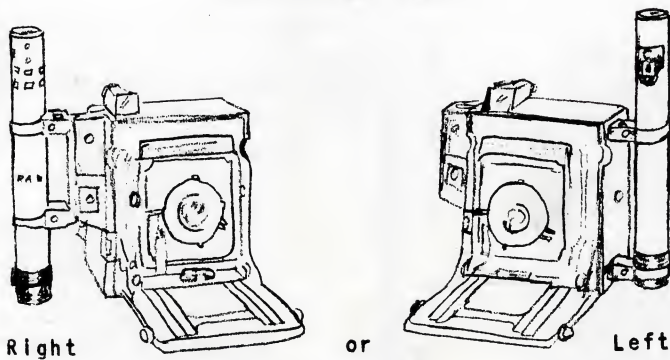
GRAFLITE Mounting Kit, Cat. No. 2754

- Includes:
- 1- GRAFLITE mounting plate
  - 1- Insulation strip
  - 3- Washers insulating
  - 2- Screws-5/16" x 4-40 oval head
  - 1- Screw-3/16" x 4-40 oval head
  - 2- Washers-Spacer



## ADJUSTING THE GRAFLITE BATTERY CASE

### POSITIONING CLAMPS



#### Normal Top Position Release

Release clamp on top: Screw slots of top and bottom clamps will be on the same side.

#### Special Bottom Position Release

Release clamp on bottom: Invert top clamp to hook upwards on top mounting ear. Screw slots will be on opposite sides.

#### Positioning Clamps

Do not burr screw slots by using an undersize or worn screwdriver that will slip.

A drop of lubrication on the threads will greatly ease the tightening effort.

1. Back out screw to open clamp enough to move without binding on the tube.
2. Set bottom clamp to engage bottom mounting ear when battery case is nearly level with camera bottom.
3. Open top clamp to move freely and slide to approximate location of bracket ear and tighten the screw to remove slack. See illustration.
4. Notice spring position--push straight with the screwdriver tip.
5. Press clamp up to remove vertical play and tighten screw.



PUSH or PULL



#### Push or Pull

Your battery case will be delivered with the switch set to push on the right side and pull on the left side of the camera.

If you wish to change this, follow steps 1-7. This must be done to properly locate the lamp ejector and contact tip that contacts the lock screw in the reflector base.

1. Remove the reflector guide screw at the side. See (D).
2. Lift out the inside socket and spring.
3. Turn flat edge of rubber washer to the front. See (A).
4. Position the key of the lamp clamp ring to the front of the socket slot. See (B).
5. Assemble contact spring at the front socket recess. See (C).
6. NOTE: Contact tip must position in the center of the lower hole. See (C) & (D).
7. Replace reflector guide screw at the side and be sure the contact tip is in the center of the lower hole. See (D).

